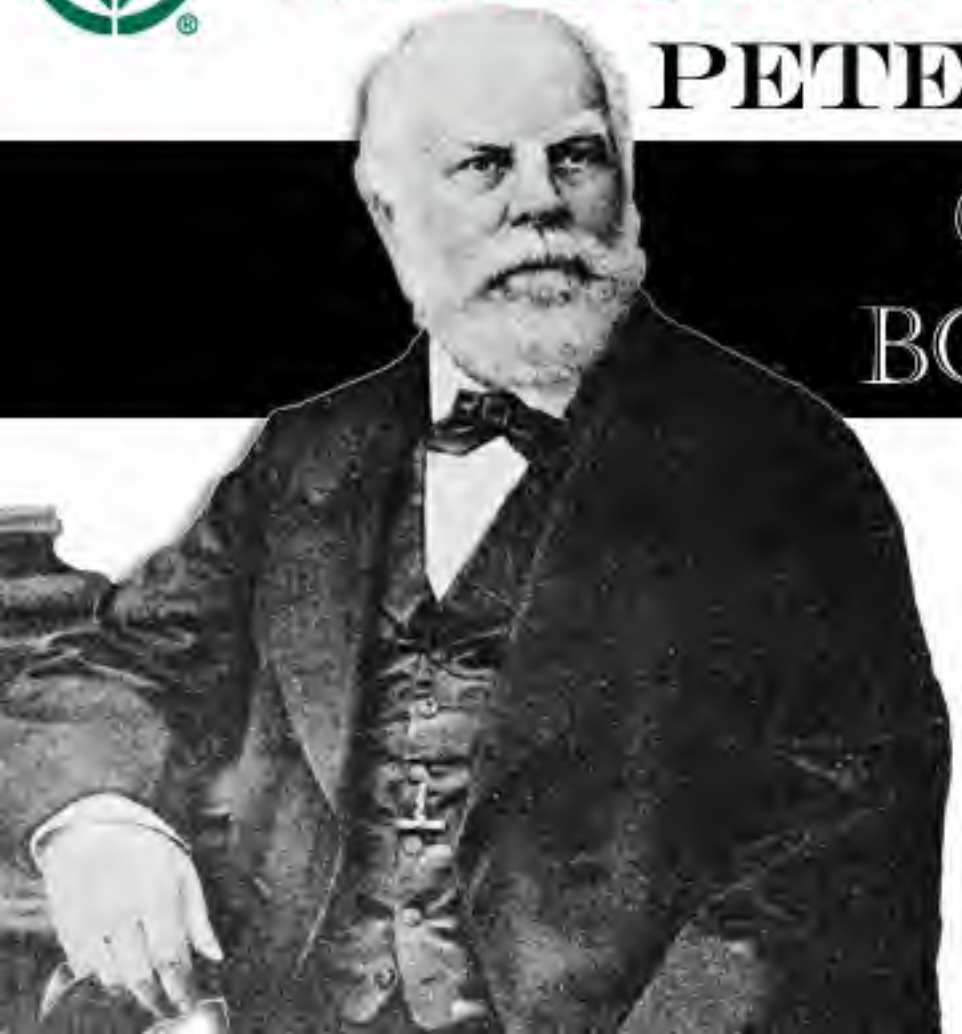
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

2

I. Genuini

2 Communes

a, Robustiores

54-142

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8938

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Aug 21 1865

Ipomoea acetosæfolia Lin var α
——— acutiloba Lamarck

Paestum, March 1867

Seeds very ripe & good, silky indistinct 15–20
crossbars hairs & stem.

×60

×10

mouth of capsule

marking indistinct

sepals very distinctly delicately membranous & immediately destroyed

Capsula fusca ovato-subrotunda, acuminata, crassissima ligneosa

0 1 2 3 4 5 6 7 8 9 10 cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8939

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

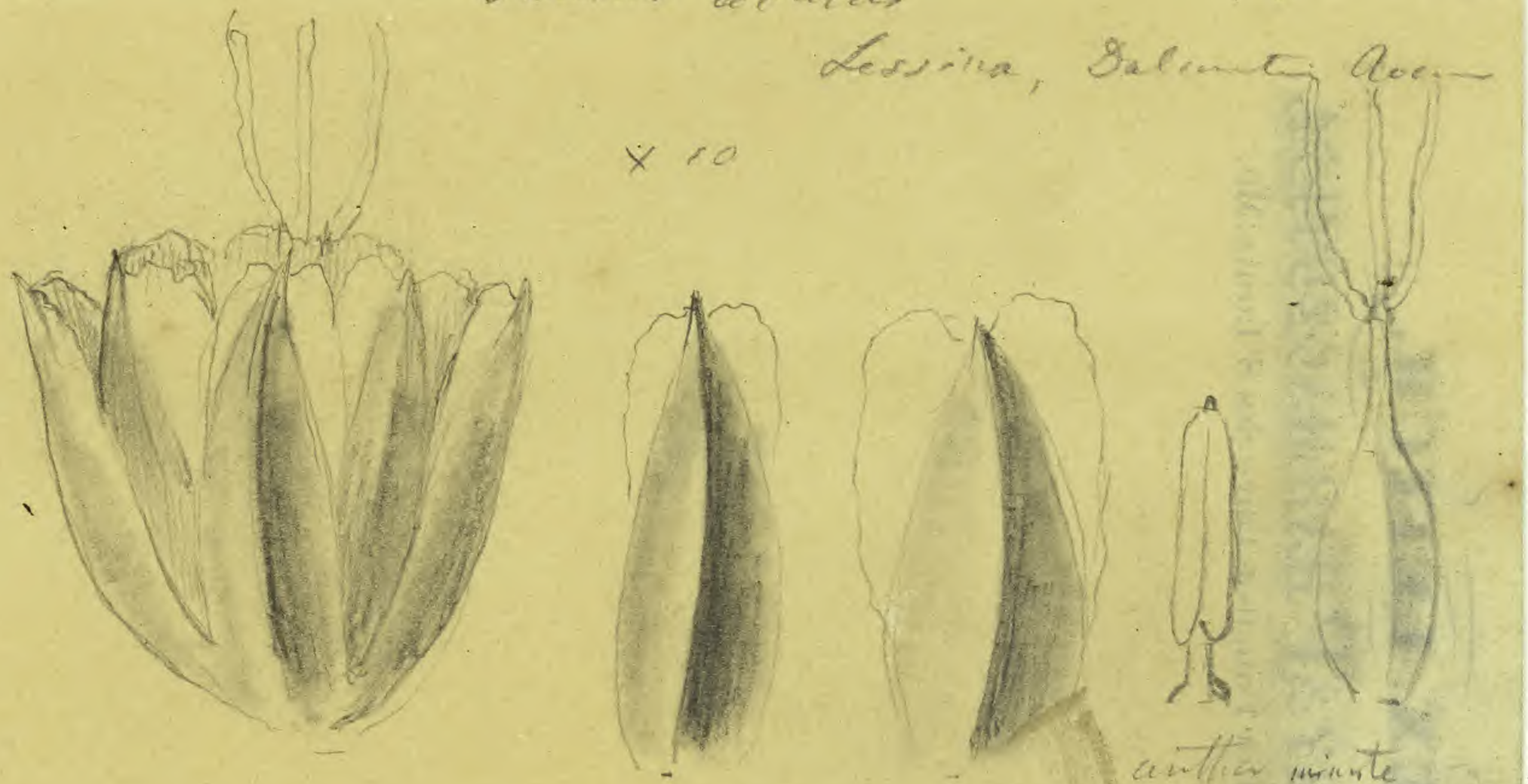
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Aug 22 1865

Sinuses acutes

Lessiria, Galinsoga Acc—

× 10



extern intern apicul.

Sepales

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

8940

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

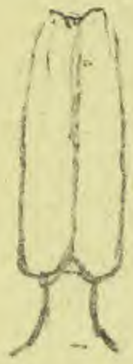
cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

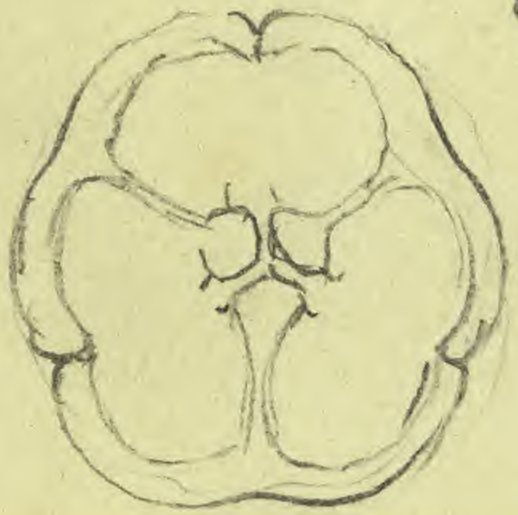
Jones,

Jan 18 1866

Sea shore, New Jersey, P. Durand – H6 sno

no! from Europe!





Vaginae foliatae

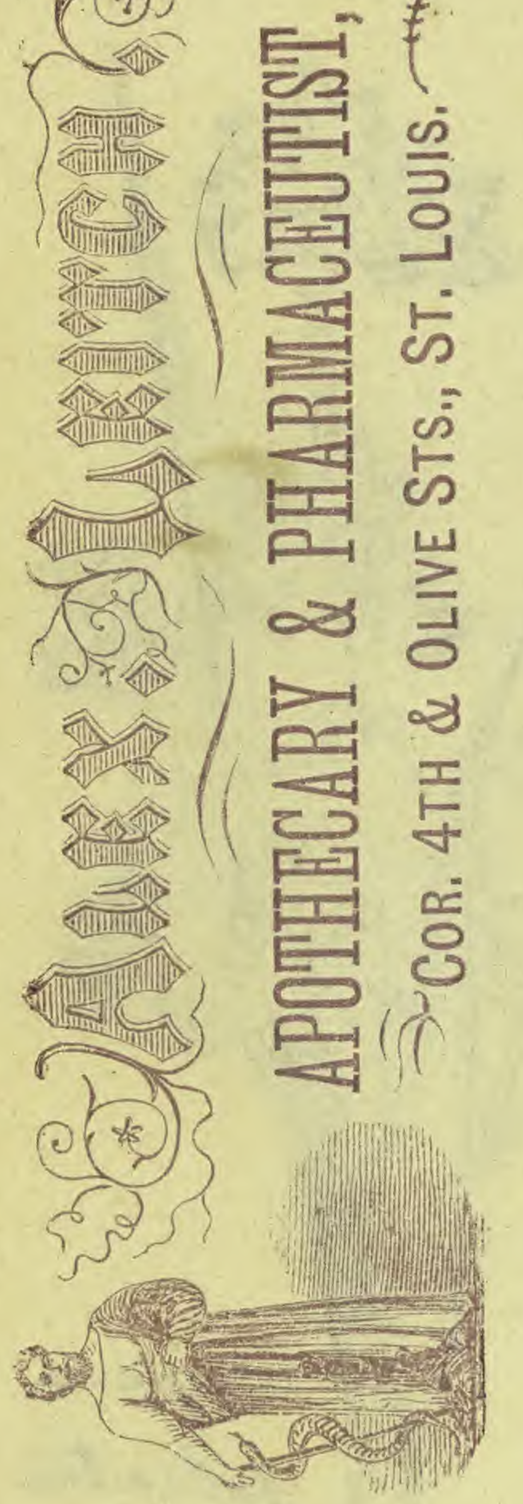
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

ALEXIAN

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.



1168

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

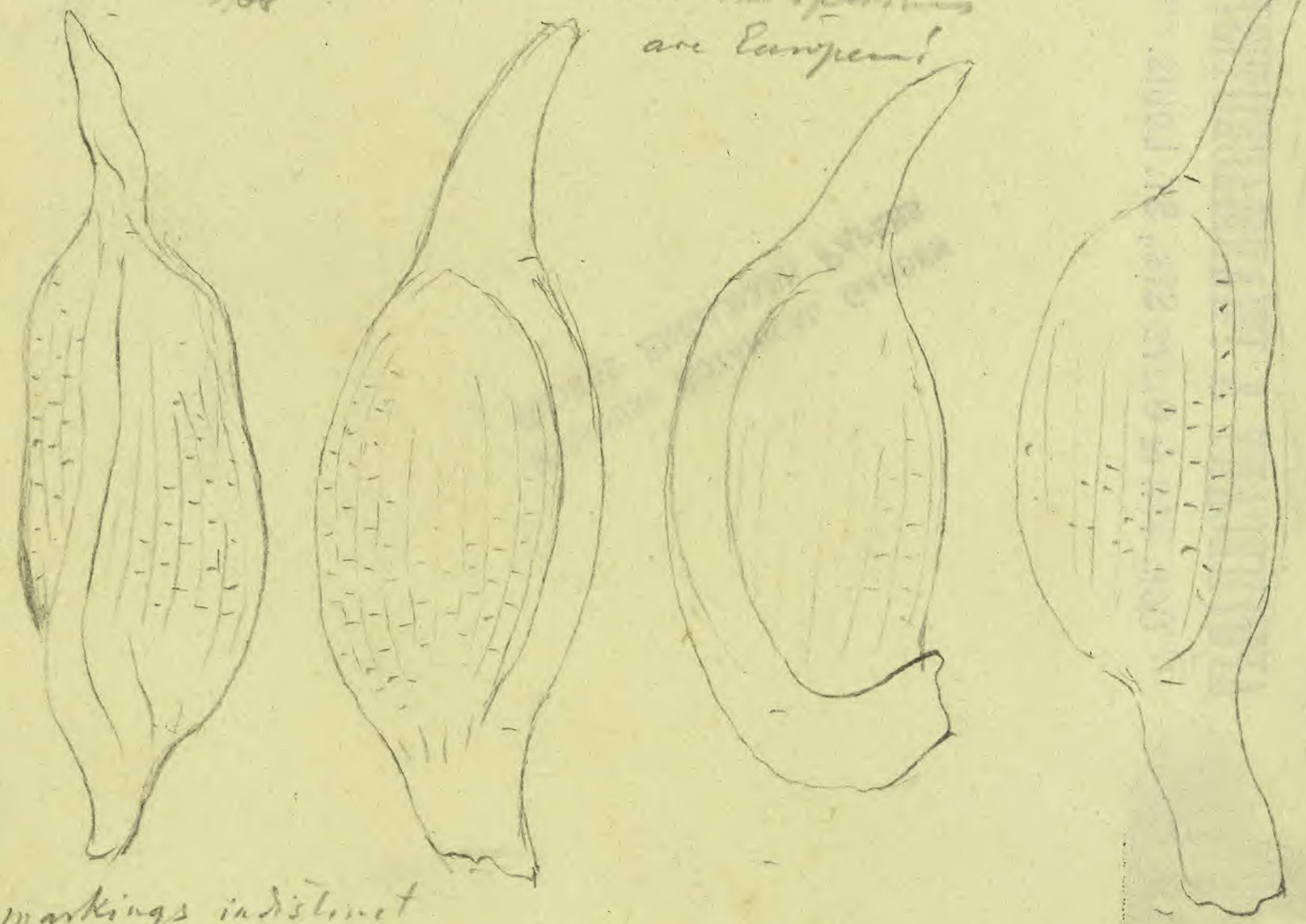
Limonia acuta

Jan 18 1866

Sea Shore New Jersey E. Durand — H.C. Soc

×6a

×20! The specimens are Compressed!



markings indistinct

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8942

Aug. Leirich

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus acutus
Sea Shore New Jersey E. Durand
and southern States

Jan 18 1866

Durand's Label
in his herb.

Long before flowering

no! The species is European.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8943

ALEX. LAITCH,

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus

sub nom? J. maritimus

Berlin June 30 1

Sinai & Suez, Chrenberg & Hempr.

Hb. reg. Berol.

Capitulis ~~flavescens~~ 2-4, vel 3-floris

sæpius

X36

8 - 10 ribs on one side

X150

Caps. &

Stamen

copyright reserved

MISSOURI BOTANICAL GARDEN

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

8944

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

S. maritimus Jan 17 1866

Morris Isl. Charleston Harbor

Dr Grosvenor 1864

HC Gray

Tepala 5 nervia

exterior paulo longior acuta

interior obtusa

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8945

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1°F.
1862...	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4°F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. *Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of* 6, 9, 12, 3, 6 *and* 9, *from morning till night, based upon daily observations at these hours through the years* 1861 *and* 1862, *at St. Louis, Mo.*

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F...	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8946

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

J. effusus
var glomeratus
Frankf

Aug 18 1865

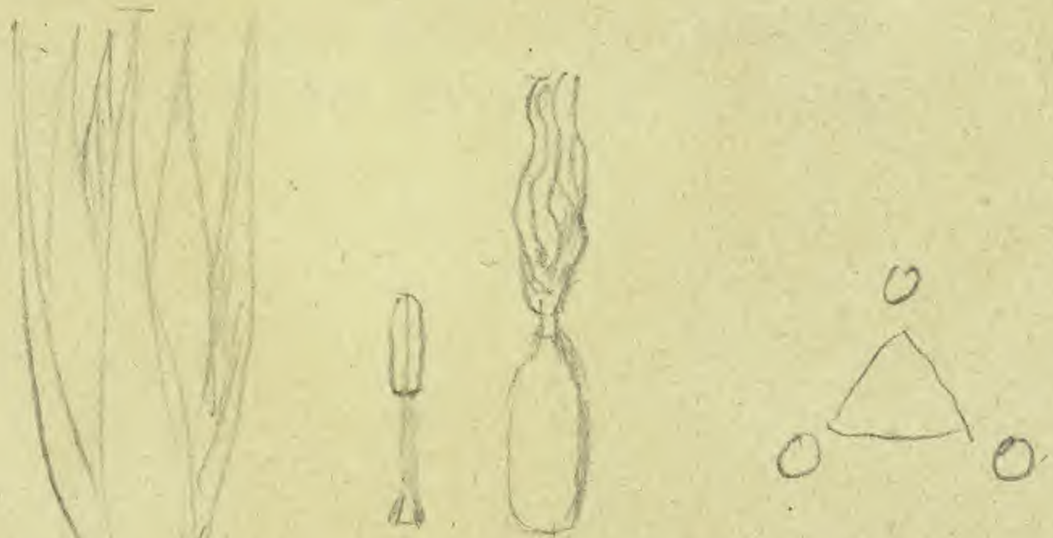
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN FUND

H. H. LEITCH,
DRUGGIST & PHARMACEUTIST,
Cor. Fourth & Olive Sts. St. Louis, Mo.

Lth 8

I. effusus Der
sepalis ovatis acutis
535 W Schaffner V. d. Hudson Aug 1853



0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Missouri Botanical Garden
George Engelmann Papers

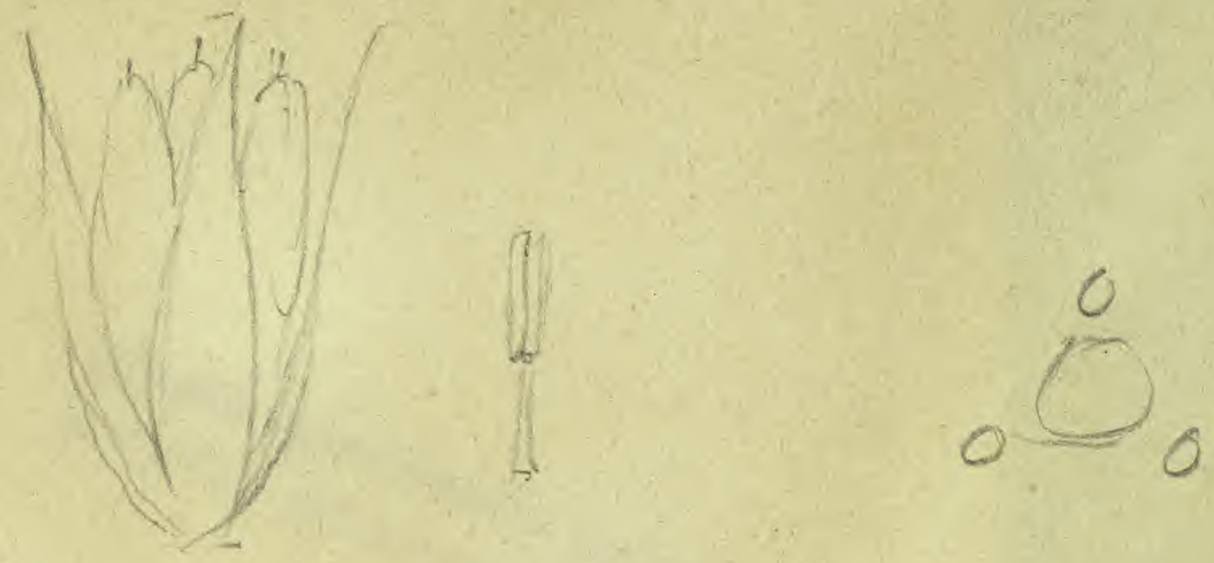
8468

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
Missouri Botanical Garden

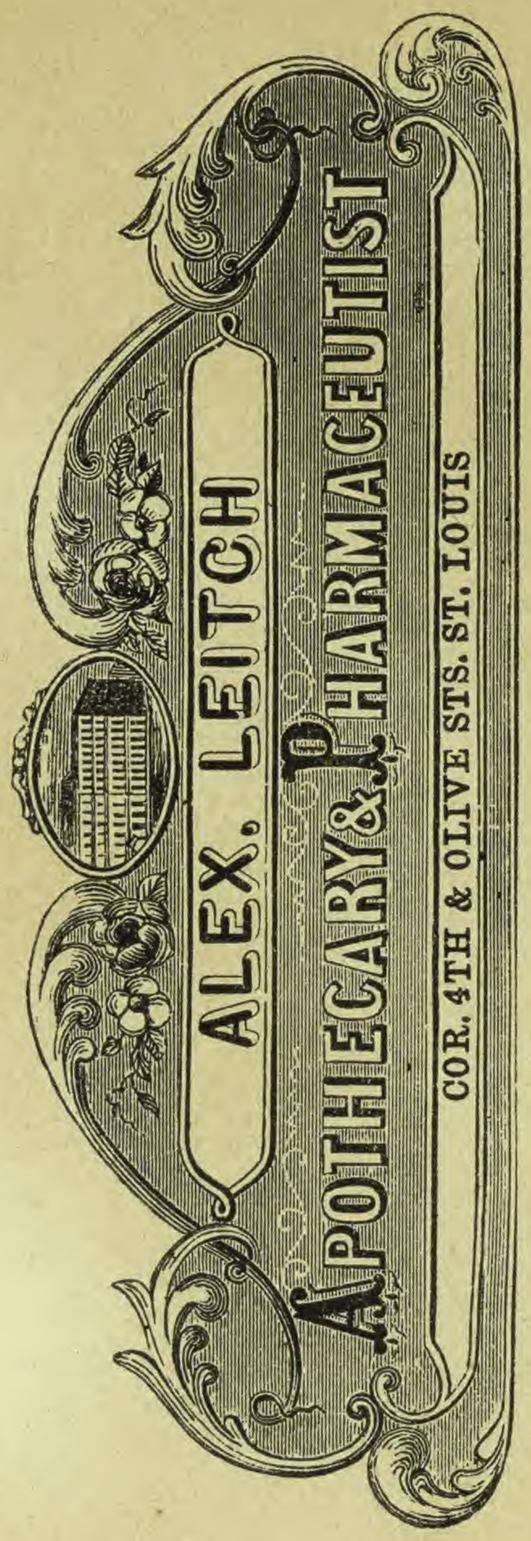
S. officinarum

Dec 21 1866

534 W Schaffner D.2. Mexico Aug 1855



0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN



btbb

MISSOURI BOTANICAL GARDEN
ENGELMANN HERBARIUM

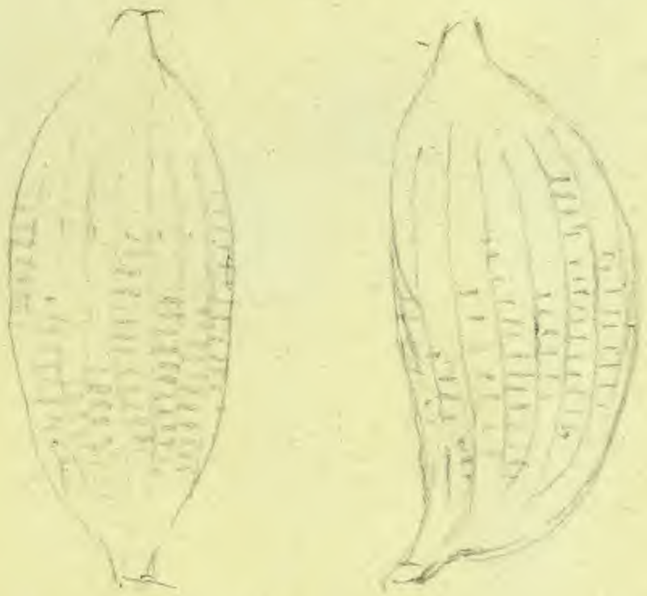
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Juncus effusus
var semiochs retroflexis

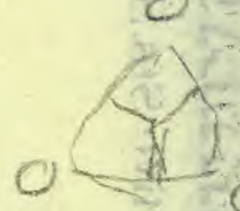
Dec 11 1867

Boggy places near Seacoast, not brackish,
of Mississippi & Florida May
1859

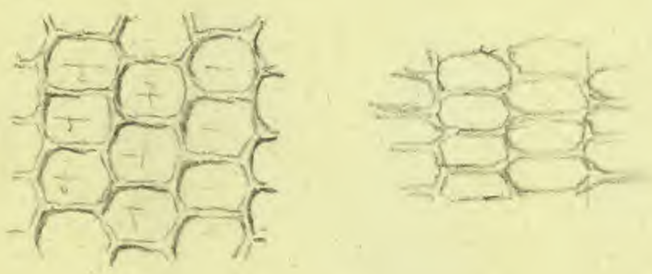
x60



about 6-7 rows



x150



GEORGE ENGELMANN LIBRARY
MISSOURI BOTANICAL GARDEN

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8950

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

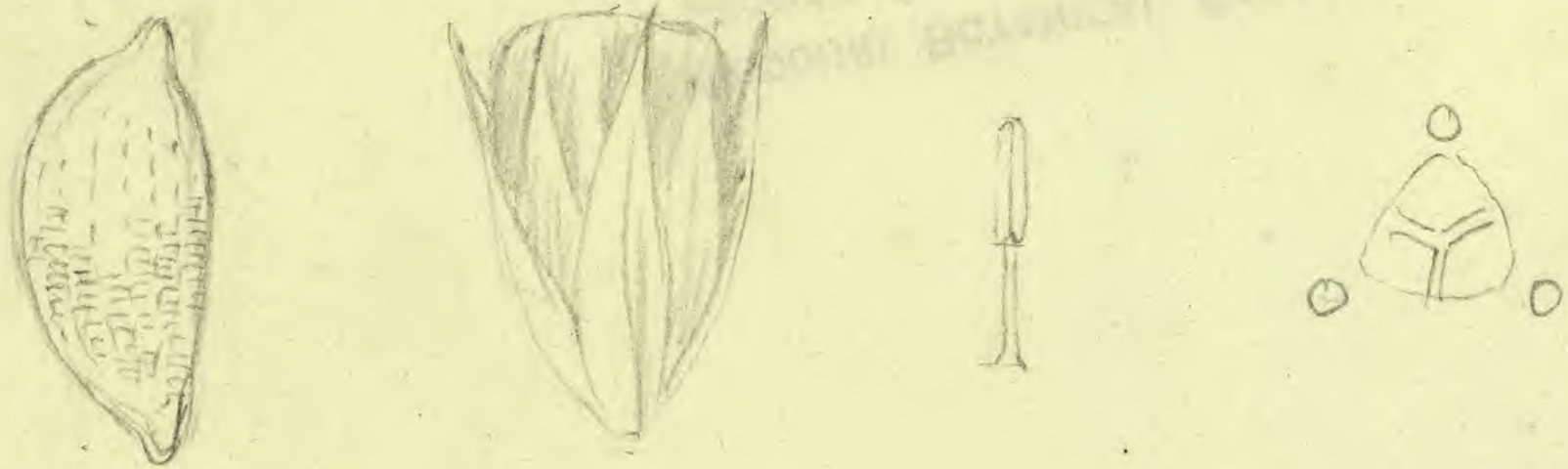
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

L. officinalis

Dec 20 1866

cf. 533 W. Schaffner, Valle di Mexico Aug 1855



0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

LEX. LEITCH.

ARY & PHARMACEUTIST.

ng Cor. Fourth & Olive Sts. St. Louis, Mo.

8951

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Innere effusus and allied ones
the so called sterile stems are leaves!
see Irmisch in Bot. Zeitung 1855. p. 58
Slit in the base for the emission of another
leaf also /8 Lee Long.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Missouri Botanical Garden
George Engelmann Papers

2568

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
Missouri Botanical Garden

July	2	4	.....	.....	.....	3 .....
August.....	3	.....	1	.....	1	2 .....
September.....	4	.....	.....	1	4	8 .....
October	3	1	1	1	7	1 .....
November	2	3	.....	7	.....	7 .....
December	2	3	.....	.....	.....	6 .....
	50 + el.	36 + el.	23 — el.	28 — el.	15 no el.	34 no el.

Snowing was accompanied

	By Positive Electricity.		By Negative Electricity.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January.....	3	9	.....	2	.....	.....
February	12	8	.....	1	.....	.....
March	3	12	.....	.....	.....	.....
October.....	.....	1	.....	.....	.....	.....
November	.....	4	.....	.....	.....	.....
December	5	2	2	.....	.....	1 .....
	23 + el.	36 + el.	2 — el.	3 — el.	.....	1 no el.

REMARKS.

The monthly mean of atmospheric electricity in 1862 was not quite so regular as that in 1861. While in 1861 an un-

57

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

December; the second with a mean electricity by the months of March, April, May and October; and the third with the lowest electricity by the months of June, July, August and September.

The aggregate monthly mean of

The first group in	1861	is	52.9—	in 1862,	54.6
The second	"	"	33.5	"	35.2
The third	"	"	14.1	"	10.5

Thus in 1861 the third group prevailed, and in 1862 the first and second. But these differences are so well balanced throughout the year, that the mean of the whole year in 1861 and in 1862 is exactly the same, namely, 8.4. Such an identity in the yearly result, even to decimals, is of course not to be expected every year; but it seems to prove, at least, that the yearly mean of electricity is as constant as that of temperature, of relative humidity, and of atmospheric pressure.

The third table, showing the daily periodicity of atmospheric electricity, confirms the daily two maxima and two minima of electricity as an undeniable fact.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

2953

J. Cooper, Esq

Cambridge April 24 1861

Stem naked, with the panicle 21½ inches high

Dr J. G Cooper
Camp Cady, 1861

×45

×60

×10

1/10 inch

base

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

8954

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

copyright reserved
MISSOURI BOTANICAL GARDEN

8955

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

"Juncus Pylaisei D.C. harp." ✓

This is the entire label, without any note of Dr Pylaie himself, such as are common with other species.

There are two specimens, resembling very much a young J. effusus; only the flowers are almost twice as large — 2½ feet high — no rhizoma — sheath 5–6" long; panicle about 1-inch long lax-flowered.

Kunth has it (III p. 322)
culmo flaccido striato teretiusculo; panicula glomerulata vel composita

I would say:
— tenui striato-sulcato, teretiusculo; p. laxa composita

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Fac simile

B. Delaffylaie

à terre Neuve 1816

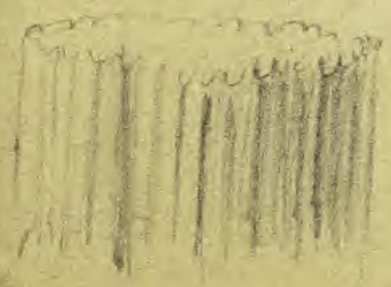
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Lunaria Pyladi ! Paris 13 March 1868
non fruct., Lophyllia 1816
in Herb general.

x 10

half grown ovary

stem
x 10



stamen & ovary
of younger & upper
flowers

young fruit
of first
& lower flower

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

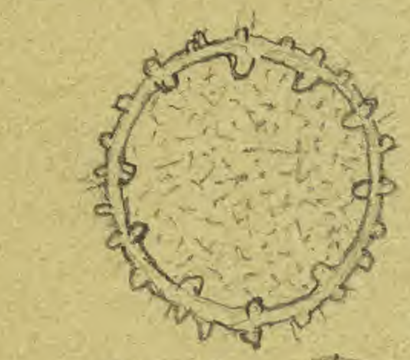
8956

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Amorpha Boykinii ! April 19 1879

C. Herb. De Candolle

section of stem ×10



caulis farctus

×10

immature capsule

immature seed

×60

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

H. W. BARKHOEFER & CO.,

DRUGGISTS & PHARMACISTS,

No. 2934 Olive Street, S. E. Corner Garrison Avenue,

ST. LOUIS, MO.

℞

8957

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

J. Heldreichianus Deuse exsiccatus.
1893 H.-Heldreich. Phalerum, Attica. = J. multibracteatus
fide Degen in herb.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

8528